

Enrique Otarola

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2783769/publications.pdf>

Version: 2024-02-01

48
papers

922
citations

623188

14
h-index

476904

29
g-index

48
all docs

48
docs citations

48
times ranked

374
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Fractional Semilinear Optimal Control: Optimality Conditions, Convergence, and Error Analysis. SIAM Journal on Numerical Analysis, 2022, 60, 1-27. | 1.1 | 4 |
| 2 | On the analysis and approximation of some models of fluids over weighted spaces on convex polyhedra. Numerische Mathematik, 2022, 151, 185. | 0.9 | 4 |
| 3 | Error Estimates for a Pointwise Tracking Optimal Control Problem of a Semilinear Elliptic Equation. SIAM Journal on Control and Optimization, 2022, 60, 1763-1790. | 1.1 | 1 |
| 4 | Error Estimates for Optimal Control Problems Involving the Stokes System and Dirac Measures. Applied Mathematics and Optimization, 2021, 84, 1717-1750. | 0.8 | 8 |
| 5 | Error Estimates for the Optimal Control of a Parabolic Fractional PDE. SIAM Journal on Numerical Analysis, 2021, 59, 1140-1165. | 1.1 | 11 |
| 6 | The stationary Boussinesq problem under singular forcing. Mathematical Models and Methods in Applied Sciences, 2021, 31, 789-827. | 1.7 | 3 |
| 7 | Error Estimates for FEM Discretizations of the Navier–Stokes Equations with Dirac Measures. Journal of Scientific Computing, 2021, 87, 1. | 1.1 | 3 |
| 8 | A posteriori error estimates in W_1, \tilde{A} – \tilde{A} spaces for the Stokes system with Dirac measures. Computers and Mathematics With Applications, 2021, 94, 47-59. | 1.4 | 3 |
| 9 | A weighted setting for the stationary Navier Stokes equations under singular forcing. Applied Mathematics Letters, 2020, 99, 105933. | 1.5 | 6 |
| 10 | Adaptive finite element methods for sparse PDE-constrained optimization. IMA Journal of Numerical Analysis, 2020, 40, 2106-2142. | 1.5 | 4 |
| 11 | An adaptive finite element method for the sparse optimal control of fractional diffusion. Numerical Methods for Partial Differential Equations, 2020, 36, 302-328. | 2.0 | 9 |
| 12 | A Posteriori Error Estimates for the Stationary Navier–Stokes Equations with Dirac Measures. SIAM Journal of Scientific Computing, 2020, 42, A1860-A1884. | 1.3 | 6 |
| 13 | Stability of the Stokes projection on weighted spaces and applications. Mathematics of Computation, 2020, 89, 1581-1603. | 1.1 | 8 |
| 14 | A PDE approach to fractional diffusion: a space-fractional wave equation. Numerische Mathematik, 2019, 143, 177-222. | 0.9 | 8 |
| 15 | A Priori Error Estimates for the Optimal Control of the Integral Fractional Laplacian. SIAM Journal on Control and Optimization, 2019, 57, 2775-2798. | 1.1 | 34 |
| 16 | An Adaptive FEM for the Pointwise Tracking Optimal Control Problem of the Stokes Equations. SIAM Journal of Scientific Computing, 2019, 41, A2967-A2998. | 1.3 | 6 |
| 17 | A reaction coefficient identification problem for fractional diffusion. Inverse Problems, 2019, 35, 045010. | 1.0 | 5 |
| 18 | Maximum–norm a posteriori error estimates for an optimal control problem. Computational Optimization and Applications, 2019, 73, 997-1017. | 0.9 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | An a posteriori error analysis of an elliptic optimal control problem in measure space. Computers and Mathematics With Applications, 2019, 77, 2659-2675. | 1.4 | 2 |
| 20 | The Poisson and Stokes problems on weighted spaces in Lipschitz domains and under singular forcing. Journal of Mathematical Analysis and Applications, 2019, 471, 599-612. | 0.5 | 12 |
| 21 | Tensor FEM for Spectral Fractional Diffusion. Foundations of Computational Mathematics, 2019, 19, 901-962. | 1.5 | 34 |
| 22 | A posteriori error estimates for the Stokes problem with singular sources. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 1007-1032. | 3.4 | 16 |
| 23 | An a posteriori error analysis for an optimal control problem involving the fractional Laplacian. IMA Journal of Numerical Analysis, 2018, 38, 198-226. | 1.5 | 10 |
| 24 | Optimization with Respect to Order in a Fractional Diffusion Model: Analysis, Approximation and Algorithmic Aspects. Journal of Scientific Computing, 2018, 77, 204-224. | 1.1 | 29 |
| 25 | Numerical methods for fractional diffusion. Computing and Visualization in Science, 2018, 19, 19-46. | 1.2 | 104 |
| 26 | Sparse Optimal Control for Fractional Diffusion. Computational Methods in Applied Mathematics, 2018, 18, 95-110. | 0.4 | 11 |
| 27 | Regularity of solutions to space-time fractional wave equations: A PDE approach. Fractional Calculus and Applied Analysis, 2018, 21, 1262-1293. | 1.2 | 20 |
| 28 | An a posteriori error analysis for an optimal control problem with point sources. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 1617-1650. | 0.8 | 5 |
| 29 | Some applications of weighted norm inequalities to the error analysis of PDE-constrained optimization problems. IMA Journal of Numerical Analysis, 2018, 38, 852-883. | 1.5 | 9 |
| 30 | A Posteriori Error Estimation for a PDE-Constrained Optimization Problem Involving the Generalized Oseen Equations. SIAM Journal of Scientific Computing, 2018, 40, A2200-A2233. | 1.3 | 1 |
| 31 | A posteriori error estimators for stabilized finite element approximations of an optimal control problem. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 147-177. | 3.4 | 2 |
| 32 | Optimization of a Fractional Differential Equation. The IMA Volumes in Mathematics and Its Applications, 2018, , 291-316. | 0.5 | 0 |
| 33 | Adaptive finite element methods for an optimal control problem involving Dirac measures. Numerische Mathematik, 2017, 137, 159-197. | 0.9 | 14 |
| 34 | A robust numerical method for a control problem involving singularly perturbed equations. Computers and Mathematics With Applications, 2016, 72, 974-991. | 1.4 | 3 |
| 35 | A PDE Approach to Space-Time Fractional Parabolic Problems. SIAM Journal on Numerical Analysis, 2016, 54, 848-873. | 1.1 | 92 |
| 36 | Finite Element Approximation of the Parabolic Fractional Obstacle Problem. SIAM Journal on Numerical Analysis, 2016, 54, 2619-2639. | 1.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A Space-Time Fractional Optimal Control Problem: Analysis and Discretization. SIAM Journal on Control and Optimization, 2016, 54, 1295-1328. | 1.1 | 54 |
| 38 | Multilevel methods for nonuniformly elliptic operators and fractional diffusion. Mathematics of Computation, 2016, 85, 2583-2607. | 1.1 | 33 |
| 39 | Piecewise polynomial interpolation in Muckenhoupt weighted Sobolev spaces and applications. Numerische Mathematik, 2016, 132, 85-130. | 0.9 | 41 |
| 40 | A FEM for an Optimal Control Problem of Fractional Powers of Elliptic Operators. SIAM Journal on Control and Optimization, 2015, 53, 3432-3456. | 1.1 | 55 |
| 41 | A PDE approach to fractional diffusion: A posteriori error analysis. Journal of Computational Physics, 2015, 293, 339-358. | 1.9 | 23 |
| 42 | Convergence rates for the classical, thin and fractional elliptic obstacle problems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140449. | 1.6 | 10 |
| 43 | A PDE Approach to Fractional Diffusion in General Domains: A Priori Error Analysis. Foundations of Computational Mathematics, 2015, 15, 733-791. | 1.5 | 173 |
| 44 | A locking-free scheme for the LQR control of a Timoshenko beam. Journal of Computational and Applied Mathematics, 2011, 235, 1383-1393. | 1.1 | 8 |
| 45 | Numerical approximation of the LQR problem in a strongly damped wave equation. Computational Optimization and Applications, 2010, 47, 161-178. | 0.9 | 4 |
| 46 | A Locking-Free FEM in Active Vibration Control of a Timoshenko Beam. SIAM Journal on Numerical Analysis, 2009, 47, 2432-2454. | 1.1 | 16 |
| 47 | A piecewise linear FEM for an optimal control problem of fractional operators: error analysis on curved domains. ESAIM: Mathematical Modelling and Numerical Analysis, 0, , . | 0.8 | 5 |
| 48 | A Posteriori Error Estimates for an Optimal Control Problem with a Bilinear State Equation. Journal of Optimization Theory and Applications, 0, , 1. | 0.8 | 0 |